ABSTRACT OF THE INVENTION

The invention provides methods of identifying compounds that modulate neurogenesis. The methods involve providing a compound that modulates prokineticin receptor signaling; contacting a neural stem or progenitor cell with the compound; and determining the ability of the compound to modulate neurogenesis. The invention also provides methods for modulating neurogenesis. The methods involve contacting a neural stem or progenitor cell with an effective amount of a compound that modulates prokineticin receptor signaling. Such methods are useful for both *ex vivo* or *in vivo* therapeutic applications where neural regeneration is desirable.